

PRODUCT DATA SHEET

BAGGES TCP

RoHSII :	The material is in compliance with EU directive 2011/65/EU (RoHS II)	Components :	Cotton fabric - phenolic
Color :	Brown	Nema L1-1 :	L
DIN 7735 :	Hgw 2086	IEC 61212 :	PF CC 21

Mechanical Properties	TestMethod	Value	Unit	Thickness	Note
Flexural strength	ISO 178	100	MPa	id > 100mm	*1
Compressive strength axial	ISO 604	170	MPa		*1
Cohesion between layers	IEC 61212-2 4.3	130	MPa	id < 100mm	*1
Physical Properties					
Density	IEC 1183-A	1,30	g/cm3	All	*1
Water absorption	IEC 62/1	2,0	mg/cm2	50x50x3 mm	*4
Electrical Properties					
Electric strength in oil at 90°C	IEC 60243-1	3,0	kV/mm	B) 3,0 mm	*2
Electric strength in oil at 90°C	IEC 60243-1	20	kV/25mm	B) 3,0 mm	*2
Permittivity 50 Hz	IEC 60250	-			*1
Permittivity 1 MHz	IEC 60250	-			*3
Dissipation factor 50 Hz	IEC 60250	-			*3
Dissipation factor 1 MHz	IEC 60250	-			*3
Insulation resistance after immersion in water 1MHz	IEC 60167	200	M Ω	A)	*4
Thermal Properties					
Thermal endurance index 20.000h (T.I)	IEC 60216	100	°C	≥ 3,0 mm	-

Characteristics and applications / Notes and Conditioning

Mechanical applications. Reinforced with finer fabric than SCP. Can be used, in particular, for mechanical applications where fine tolerances and smooth surface finish are required. Examples of applications are ball-bearing cages for spindle bearings and guide rings for hydraulic cylinders.

Notes	*Conditioning
A) ID > 8mm and/or OD > 10mm	1: 24h/23°C/50%RH
B) Wall thickness	2: 24h/23°C/50%RH + 1h/Oil 90°C
C) 230 MPa measured at 150°C	3: 96h/105°C + 1h/23°C/20%RH
D) Wall thickness ≥ 4,0mm	4: 24h/50°C + 24h/water 23°C
	5: 96h/105°C + 1h/Oil 90°C

The data mentioned in this data sheet is after our knowledge correct, but we reserve the right to make changes without notice.

rev: 09/2021